



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

☐ Mitigated

Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="48.59514"/>
Longitude (WGS 84):	<input type="text" value="-122.32837"/>
East (NAD 83 HARN):	<input type="text" value="1,197,742.1"/>
North (NAD 83 HARN):	<input type="text" value="1,194,914.9"/>

Waterbody

Stream:	<input type="text" value="Butler Cr"/>
Tributary To:	<input type="text" value="Friday Cr"/>
WRIA:	<input type="text" value="03.0019"/>
River Mile:	<input type="text" value="-999.99"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Mapped"/>

General Location

Road Name:	<input type="text" value="Friday Cr Rd"/>
Mile Post:	<input type="text" value="-999.99"/>
County:	<input type="text" value="Skagit"/>
WDFW Region:	<input type="text" value="4"/>

Owner

Type:	<input type="text" value="County"/>
Name:	<input type="text" value="Skagit County"/>

PI Species

<input type="checkbox"/> Sockeye	<input checked="" type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Sea Run Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input checked="" type="checkbox"/> Chum	<input checked="" type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

Associated Features

<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Dam	<input type="checkbox"/> Natural Barrier	<input type="checkbox"/> Diversion
<input type="checkbox"/> Non-Culvert Xing	<input type="checkbox"/> Other	<input type="checkbox"/> Fishway	

Location/Directions

Friday Cr Rd crossing; N of intersection of Friday Cr Rd and Parson Cr Rd.

Site Comments

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID: FR13		
Latitude: 48.59514	Stream: Butler Cr	WRIA: 03.0019
Longitude: -122.32837	Tributary To: Friday Cr	Fish Use Potential: Yes

Data Source:	Washington Department of Fish and Wildlife	
Field Crew:	Phinney;Whitney	Review Date: 1/27/2009

Culvert Details								Level A Parameters					
ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.1	RND	PCC	1.52	1.52	14.50	0.18	NO	0.45	Outlet	No		1.30	
All dimensions in meters													

Channel Description	
Toe Width (m):	
Average Width (m):	6.10
Culvert/Stream Width Ratio:	0.25
Plunge Pool	
Length (m):	13.50
Max Depth (m):	0.82
OHW Width (m):	9.20
Road	
Fill Depth (m):	2.00



Assessment Results		Tidal Influence:		Tidegate Present:	No
Barrier:	Yes	Passability (%):	67	Method:	Level A
Reason:	WS Drop	Fishway Present:	No	Recheck:	

Comments
Culvert less than 20ft from confluence of Butler Cr and Friday Cr.

Potential Habitat Gain					
Survey Type:	RSFS	Spawning (sq m):	3,000	Length (m):	6,484
Significant Reach:	Yes	Rearing (sq m):	20,544	PI Total	34.23

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WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: **FR13**

Latitude: **48.59514** Longitude: **-122.32837** WRIA: **03.0019**

Stream: **Butler Cr** Tributary To: **Friday Cr** PI Total: **34.23**

Survey Type

Spreadsheet File(s):

03.0017 1.90.xls; 03.0017 1.90B.xls; 03.0017 1.90B1.xls; 03.0017 1.90B2.xls

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

One additional DS barrier: 03.0017 1.90.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Two additional US barriers: FR14; 03.0019 4.30.

Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous
☐ Resident Only
☐ Unknown

Gain Direction (Resident Only):

Potential Species Benefit

☐ Sockeye / Kokanee

☐ Pink

☒ Chum

☒ Chinook

☒ Coho

☒ Steelhead

☒ Searun Cutthroat

☒ Resident Trout

☐ Bull Trout

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WDFW Fish Passage and Diversion Screening Inventory Database

Barrier Priority Index Report

Site ID: FR13

Stream	Butler Cr	Trib To	Friday Cr	WRIA	03.0019
Habitat (H) Estimation Method			RSFS		

	B	H	M	D	C	Species PI
Sockeye			2		3	0.00
Pink			2		3	0.00
Chum	0.33	2,873	2	1	3	9.18
Coho	0.33	17,252	2	1	3	6.43
Chinook	0.33	11,853	2	1	3	4.40
Steelhead	0.33	17,252	2	1	3	2.91
Searun Cutthroat	0.33	17,252	2	1	3	5.96
Resident Trout	0.33	20,544	1	1	3	5.35
Dolly/Bull Trout					3	0.00
					TOTAL PI	34.23

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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